



- COGENERATION
- TRIGENERATION
- POWER PLANTS
- INDUSTRIAL ASSEMBLY

TÜV
AUSTRIA
EN 1090-1:2009+A1:2011
EN 1090-2:2018
Certificate No:
0408-CPR-TA02825

TÜV
AUSTRIA
DIN EN ISO 9001:2015
Certificate No:
QMS 0419 008441

TÜV
AUSTRIA
EN ISO 3834-2
Certificate No:
HZ-02826-19-TR-OSY



HN Makine, Enerji Sektörü ve Endüstriyel Tesis Montaj konularında faaliyet göstermektedir. Faaliyet konusu ile ilgili her türlü Mühendislik, Projelendirme, Montaj, Uygulama kapasitesine ve yeterliliğine sahip olan HN Makine, bu güne kadar yurt içi / yurt dışı birçok projeyi başarı ile tamamlamıştır.

Saha uygulamaları konusunda deneyimli kadrosu ve imalat / montaj kalitesini arttırmaya yönelik takım ve kalite sertifikaları ile istenilen özelliklerde hizmet sunmaktadır.

Hedef olarak uluslararası piyasalarda olmayı seçen HN Makine, bu doğrultuda gerekli altyapı ve üstyapı çalışmalarını tamamlamıştır. Bu çalışmaların sonucu olarak, HN Makine ISO 9001 / 2015 Kalite Güvence Sistemini oluşturmuş ve sertifikalandırmıştır. Benzer şekilde Kaynaklı İmalat ve Montaj işlerinde müşterilerine en kaliteli hizmeti sunmak için ISO EN - 3834-2 / 2015 ve ISO EN - 1090-2 / 2015 kalite sistemini oluşturmuş ve sertifikalandırmıştır. Ürettiği ve/veya taahhüdünü üstlendiği projelerde istenilen standartlarda veya normlarda projelendirme ve montaj yapabilen HN Makine, maksimum enerji verimliliğini sağlamak adına konusunda uzman teknik elemanları ile çevre yönetim sistemleri ve sürdürülebilirliğe önem vermektedir.

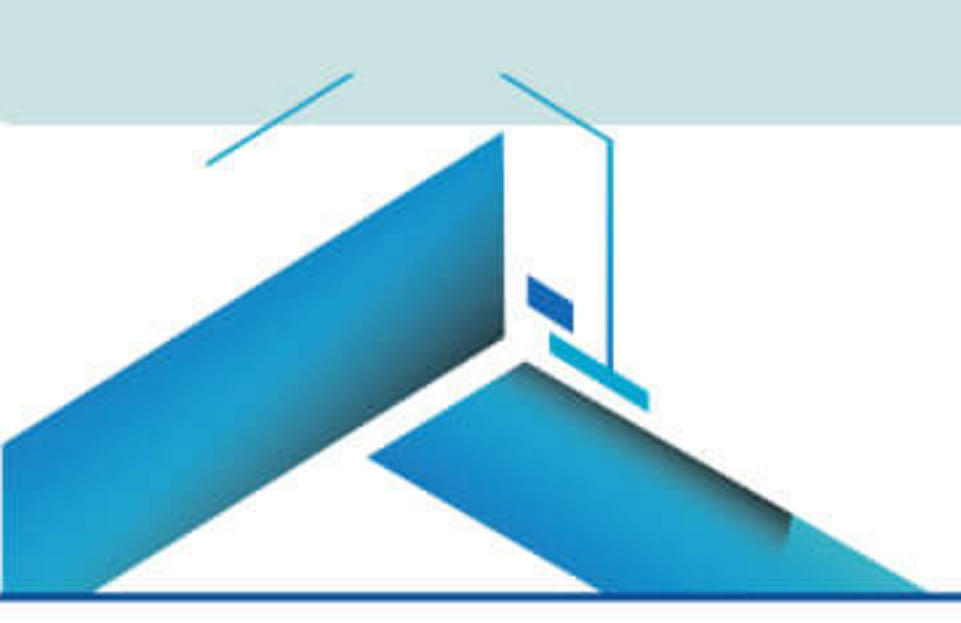
HN Makine için, öncelikli amaç ve hedef MÜŞTERİ MEMNUNİYETİ'dir. Varolan bilgi, teknoloji ve kalite seviyesini sürekli güncellemek, ekip çalışması ile tüm çalışanlarının başarıya odaklandığı ve başarıyı paylaştığı bir sistemi oluşturmak HN Makine'nin vizyonudur.



HN Makine operates in Energy and Industrial Contracting sectors. HN Makine has completed many local and international projects up to date with total customer satisfaction through the sound potential she has in Engineering, Project Designing, Industrial Assembling and Application. HN Makine produces services in the field of site application with her experienced staff to increase her manufacturing / assembling qualities with quality system certificates.

Since HN Makine wants to be a member of international market, HN Makine had completed the necessary hardwares and softwares. As a result of these efforts HN Makine is certificated with ISO 9001/2015 Quality Assurance System. Similarly HN Makine is also certificated with ISO EN 3834-2/2015 and ISO EN 1090-2/2015 which are valid in the welding and welded manufacturing sectors.

HN Makine has been designing / assembling in accordance with desired standards, it produces and undertakes, places importance on environmental management systems and sustainability with her experienced technical staff in order to ensure maximum energy efficiency. Primary aim and goal of HN Makine is the satisfaction of the customer. To update the quality level with the help of the existing knowledge and technology, to build a system in which the success is been shared and every single employee is focused on with a team work, constitutes the vision of HN Makine.



BİYOĞAZ / BIOGAS



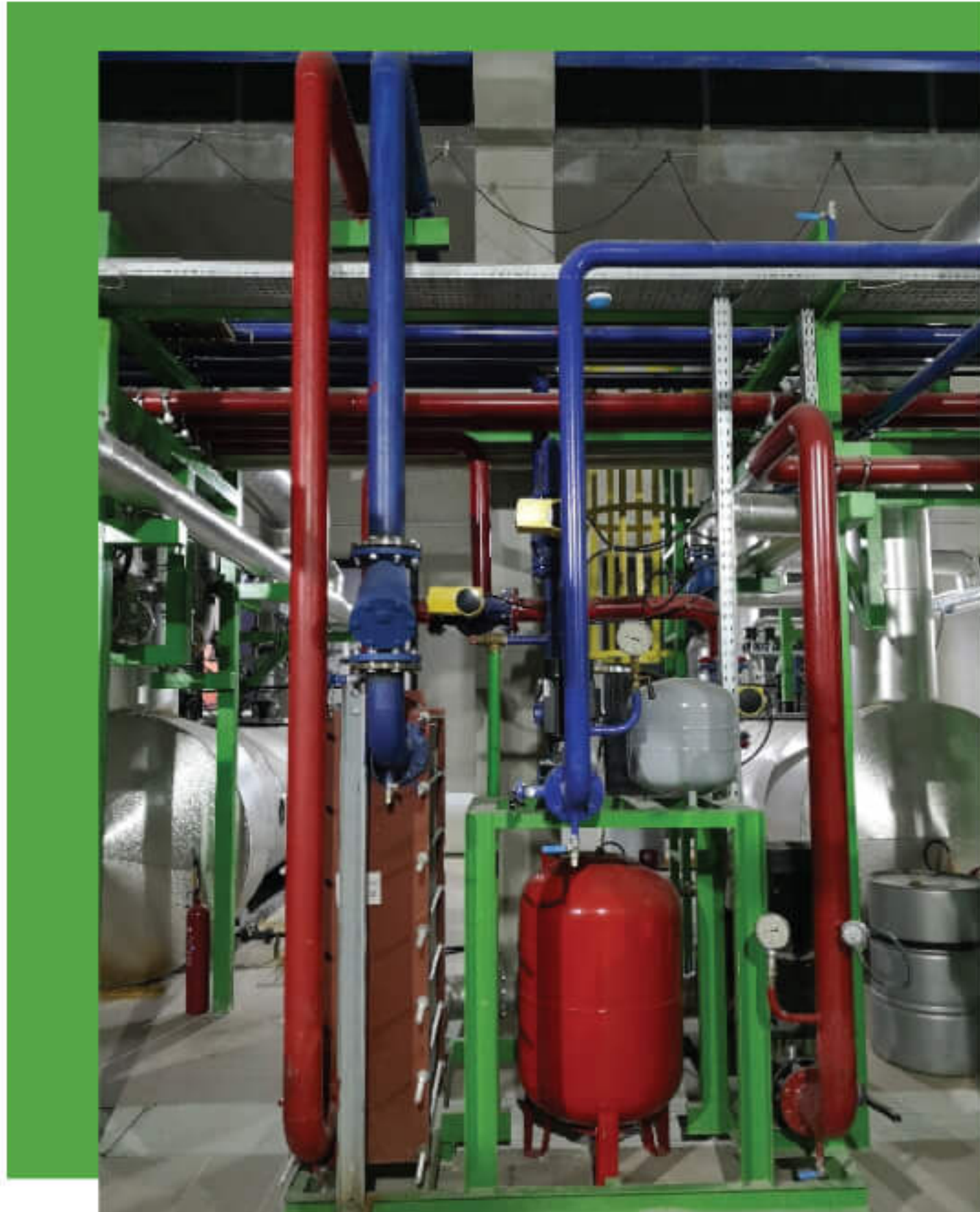
ESA Grup Enerji Biyogaz Enerji Santrali / ESA Group Energy Biogas Power Plant

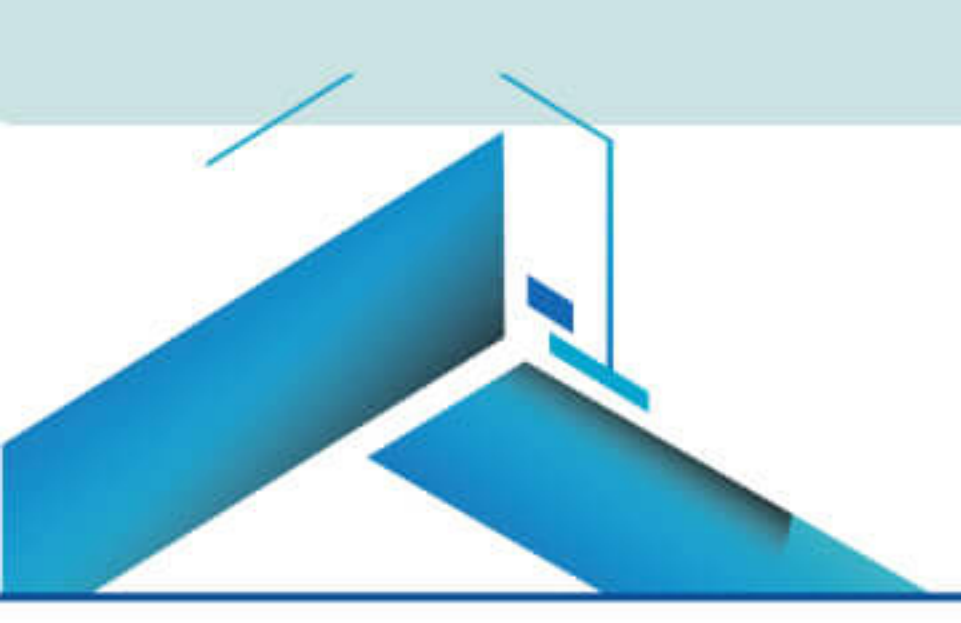


**3 Set GE Jenbacher JMS-320 biyogaz
yakıtlı gaz motoru, ısı geri kazanım
sistemi ve atık ısı kazanı
imalat ve montajının yapılması.**



**Erection of 3 Sets of GE Jenbacher JMS-320
biogas fired gas engine, manufacturing and
erection of heat recovery system and waste
heat recovery boiler.**

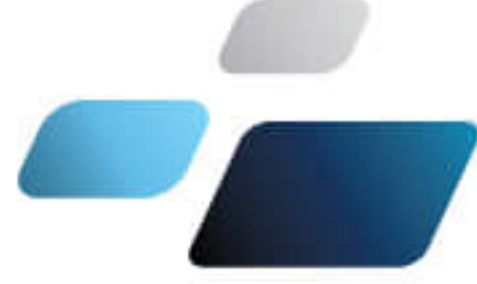




BİYOĞAZ / BIOGAS



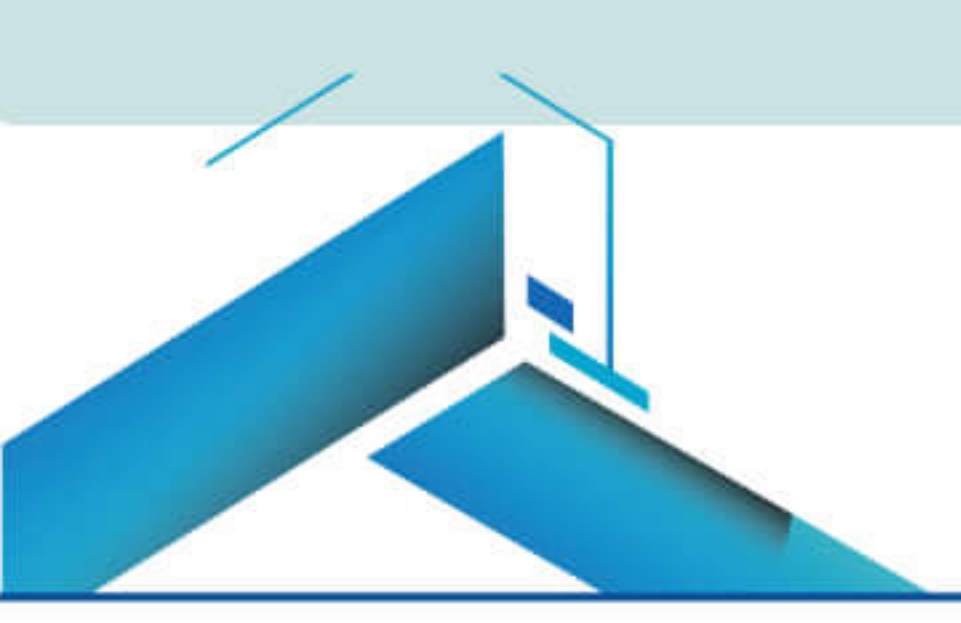
AHI Enerji Biyogaz Enerji Santrali / AHI Energy Biogas Power Plant



**2 Set GEJenbacher JMS-320 ve
3 Set GEJenbacher JMS-420
biyogaz yakıtlı gaz motoru,
ısı geri kazanım sisteminin imalat ve
montajının yapılması.**



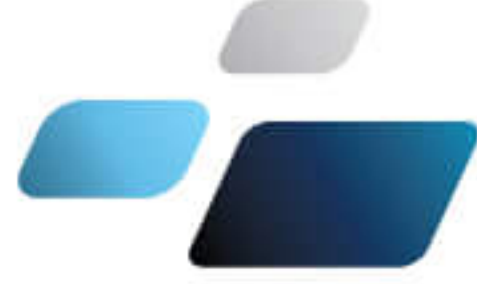
**Erection of 2 Sets of GE Jenbacher JMS-320 and
3 Sets of GE Jenbacher JMS-420
biogas fired gas engine, manufacturing and
erection of heat recovery system**



BİYOGAZ / BIOGAS



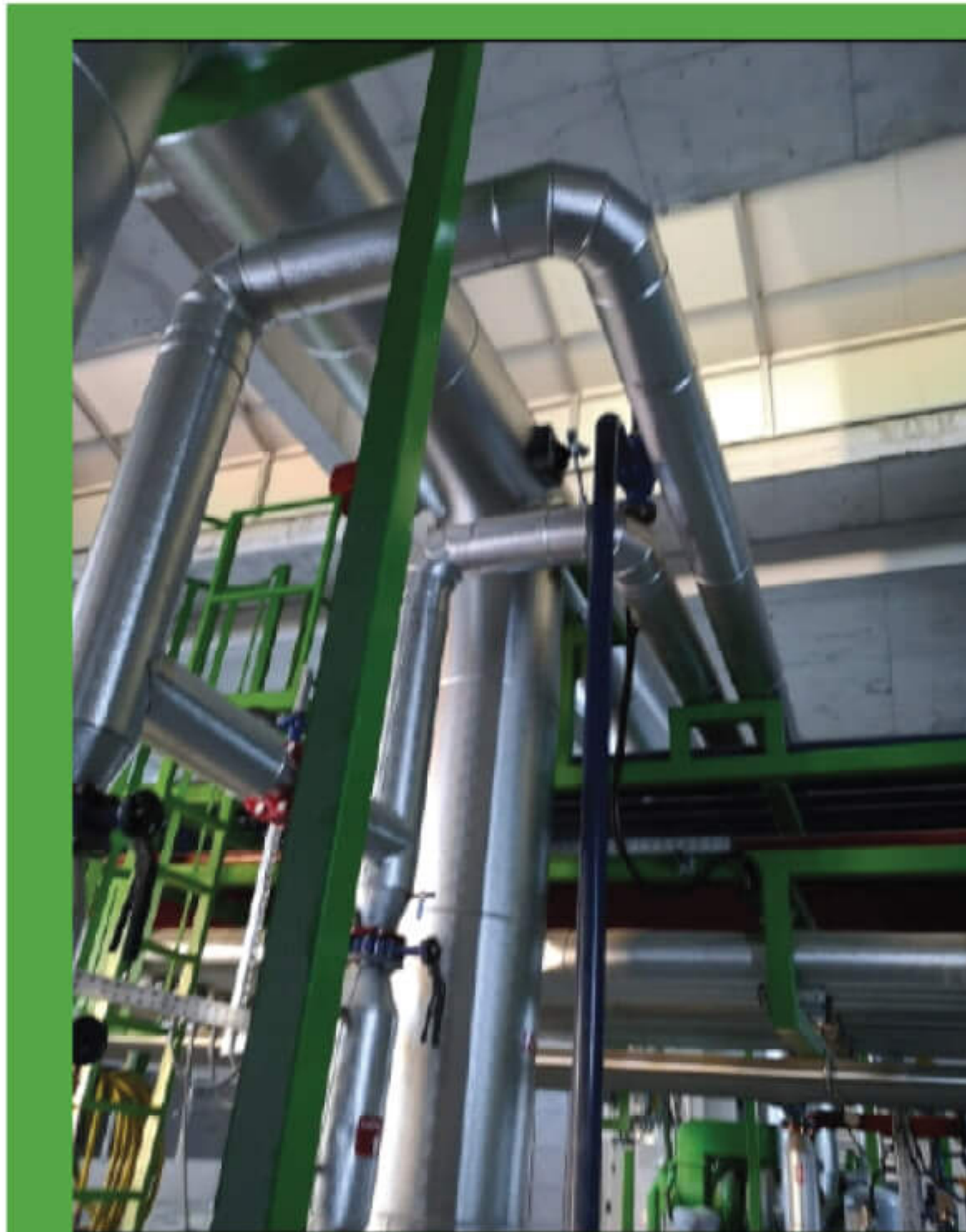
**ARF Enerji Biyogaz Enerji Santrali /
ARF Energy Biogas Power Plant**

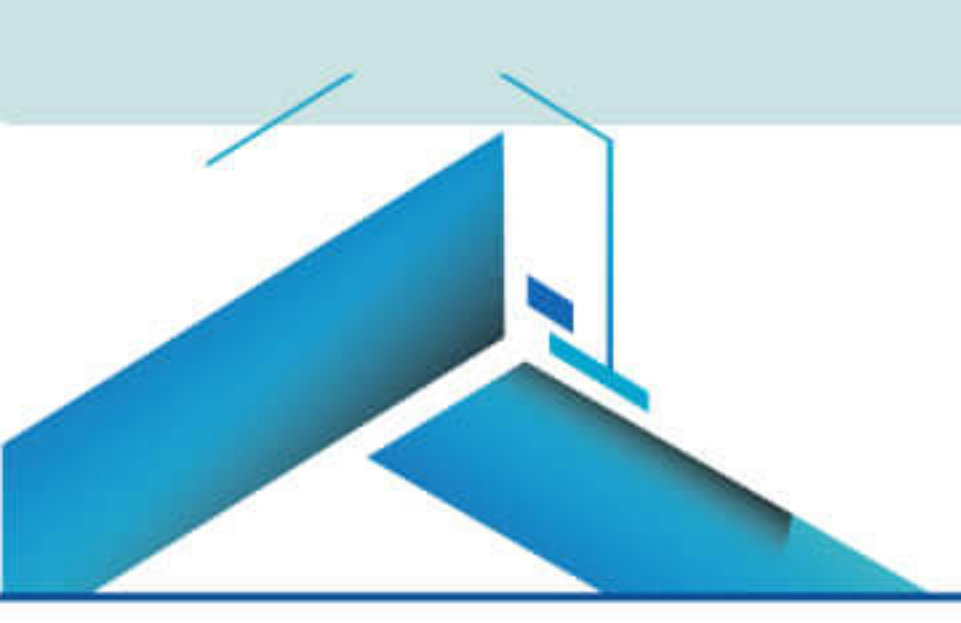


1 Set GEJenbacher JMS-312 ve 4 Set GEJenbacher JMS-320biyogaz yakıtlı gaz motoru, ısı gerikazanım sistemi ve atık ısıkazanı imalat ve montajının yapılması.



Erection of 1 Set of GE Jenbacher JMS-312 and 4 Sets of GE Jenbacher JMS-320 biogas fired gas engine, manufacturing and erection of heat recovery system and waste heat recovery boiler





KOJENERASYON / COGENERATION



**TAI Kojenerasyon Enerji Santrali /
TAI Cogeneration Power Plant**



**5 set MTU 16V4000L64 gazmotoru,
D – Tip atık ısı buhar kazanı (16 barg)
ve atık ısı geri kazanım sisteminin
imalat ve montajı.**



**Erection of 5 Sets of MTU 16V4000L64
gas engine, manufacture and
erection of heat recovery system and
D-Type waste heat recovery boiler (16 barg).**



KOJENERASYON / COGENERATION



Matesa Tekstil Kojenerasyon Enerji Santrali / Matesa Textile Cogeneration Power Plant

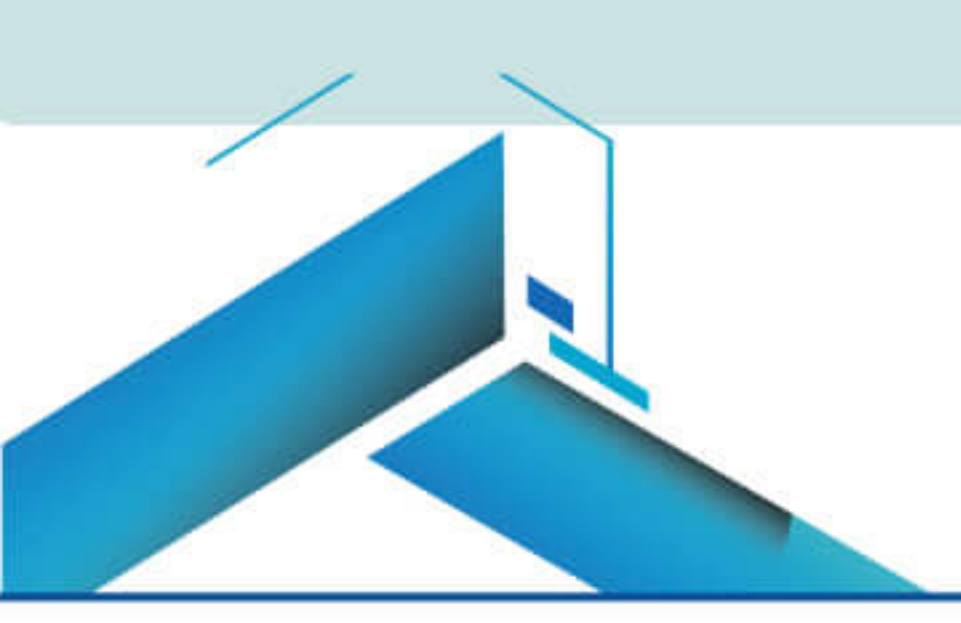


**4 set MWM CG260-16 4300 ekW
gaz motoru, atık ısı buhar kazanı sistemi
imalatı ve montajı.**



**Erection of 4 Sets of MWM CG260-16 4300 ekW
gas engine, manufacturing and
erection of heat recovery system and
waste heat recovery boiler**





KOJENERASYON / COGENERATION



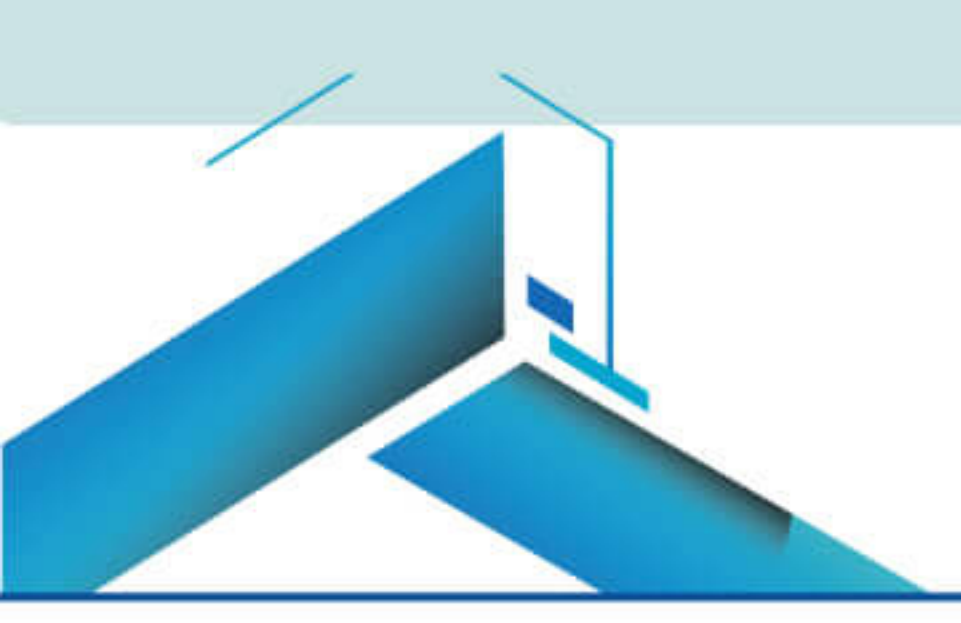
**Ve-Ge Kağıt Kojenerasyon Enerji Santrali /
Ve-Ge Paper Factory Cogeneration Power Plant**



**1 Set GEJenbacher JMS-620
gaz motoru, ısı geri kazanım sisteminin
imalat ve montajı.**



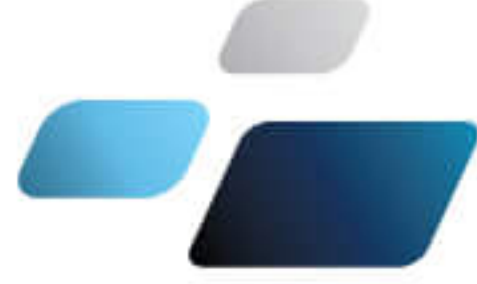
**Erection of 1 Set of GE Jenbacher JMS-620
gas engine, manufacturing and erection of
heat recovery system**



KOJENERASYON / COGENERATION



**Sabiha Gökçen Havalimanı
Kojenerasyon Enerji Santrali /
Sabiha Gokcen Airport
Cogeneration Power Plant**

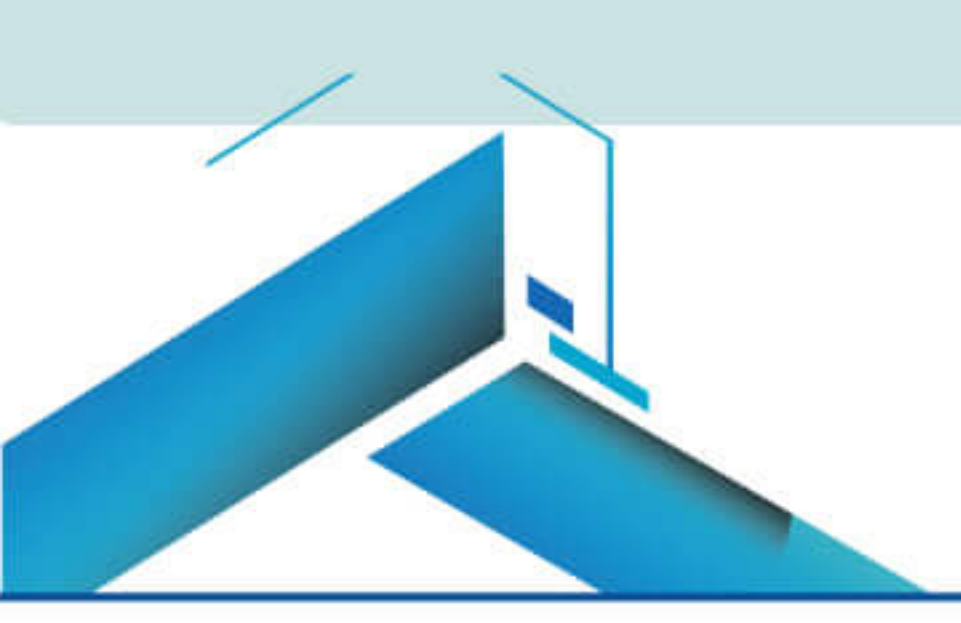


**2 set CAT 3520C gaz motoru,
atık ısı geri kazanım sisteminin
imalat ve montajı.**

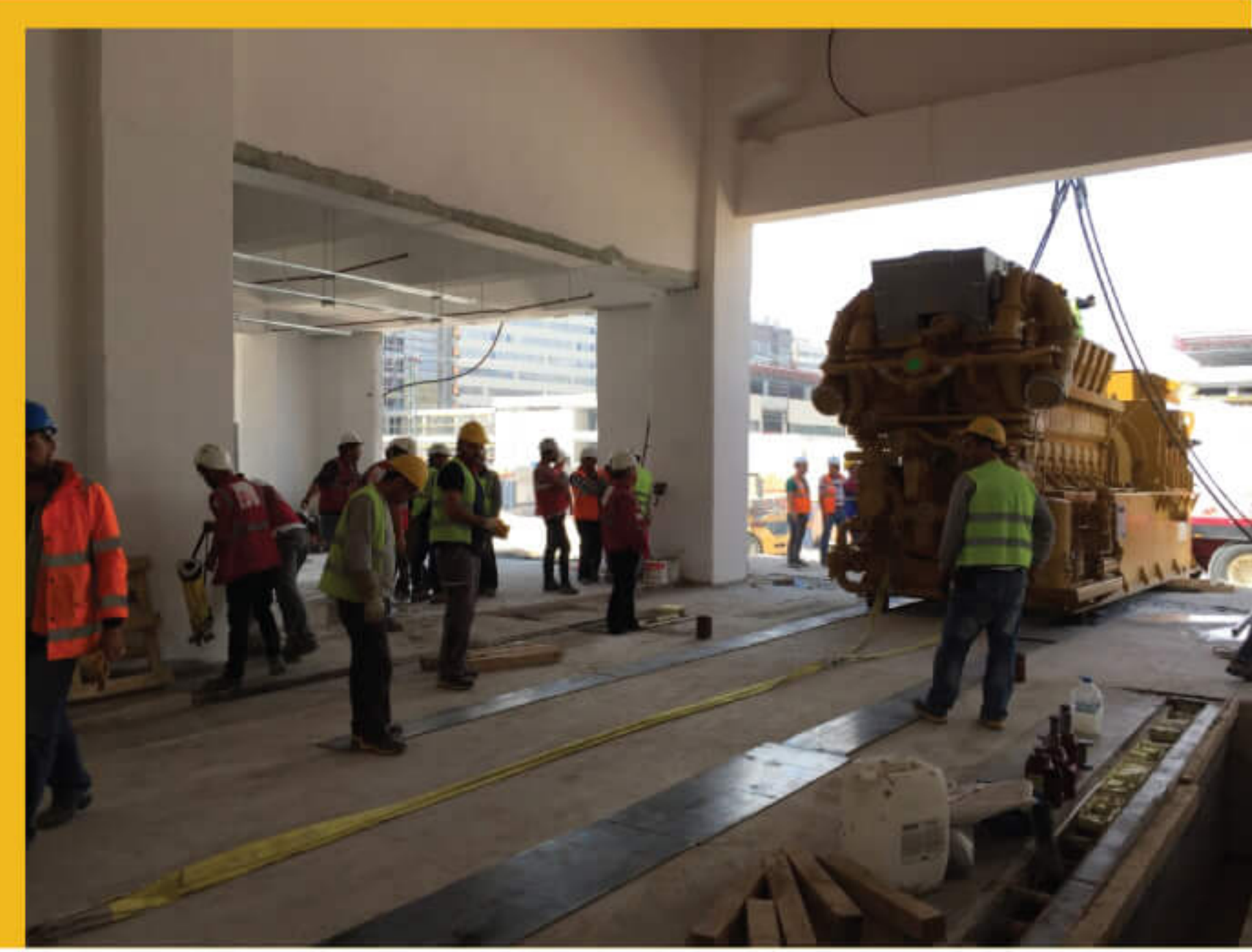


**2 Sets of CAT 3520C natural gas fired gas
engine, manufacturing and erection of
heat recovery system and
waste heat recovery boiler.**





TRİJENERASYON / TRIGENERATION



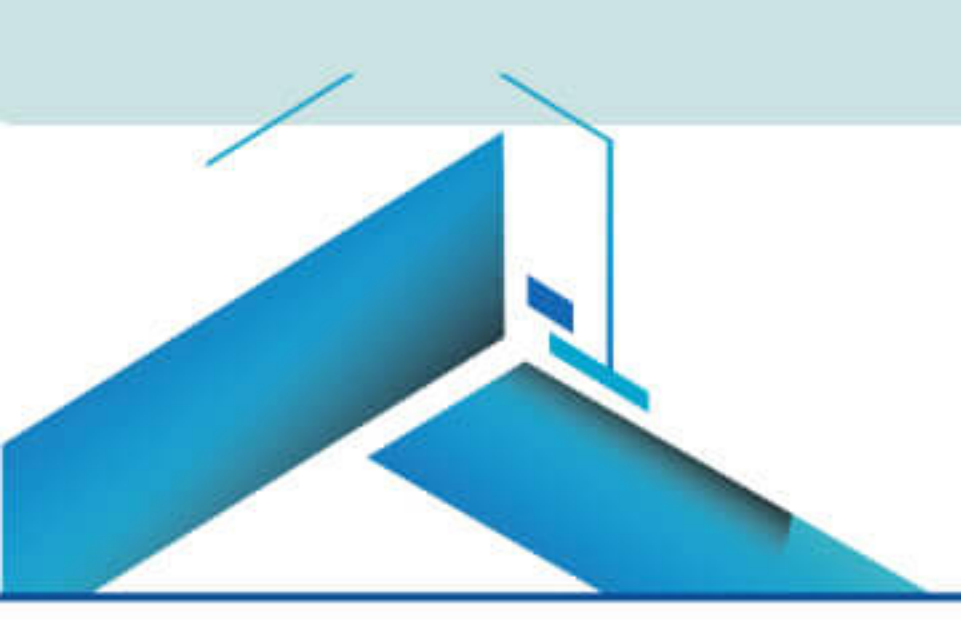
**Bilkent Entegre Sağlık Kampüsü
Trijenerasyon Enerji Santrali /
Bilkent Integrated Healthcare Campus
Trigeneration Power Plant**



**4 set MWM CG260-16 4300 ekW
gaz motoru, atık ısı geri kazanım,
ısıtma ve abs. chiller soğutma sistemi
imalatı ve montajı.**



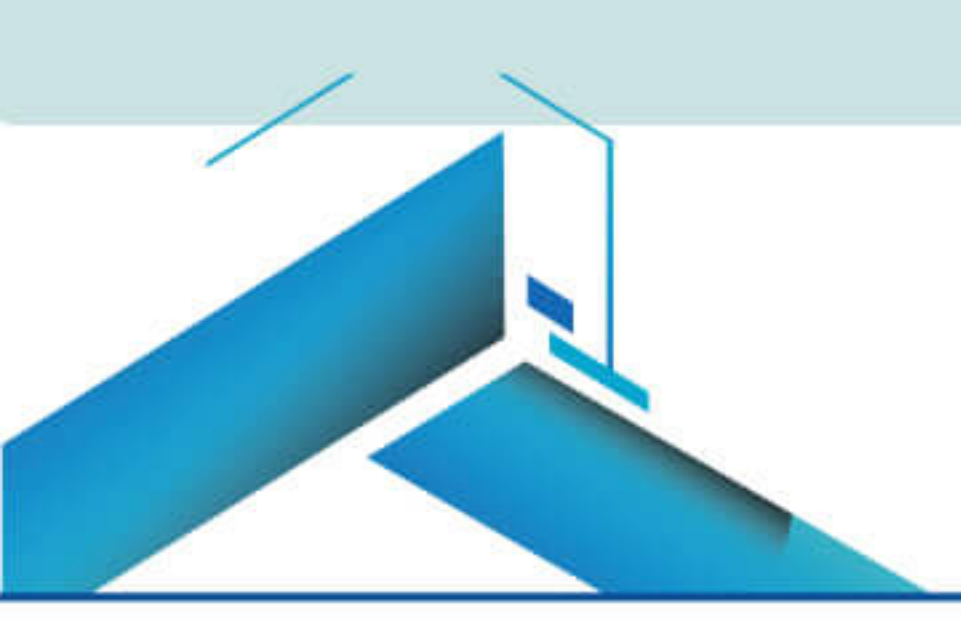
**Erection of 4 Sets of CG260-16 4300 ekW
gas engine, manufacturing and erection
of heat recovery system and
absorption chiller cooling system.**



TRİJENERASYON / TRIGENERATION



**Bilkent Entegre Sağlık Kampüsü
Trijenerasyon Enerji Santrali /
Bilkent Integrated Healthcare Campus
Trigeneration Power Plant**



TRİJENERASYON / TRIGENERATION



Ankamall AVM Trijenerasyon Enerji Santrali / Ankamall Shopping Center Trigeneration Power Plant

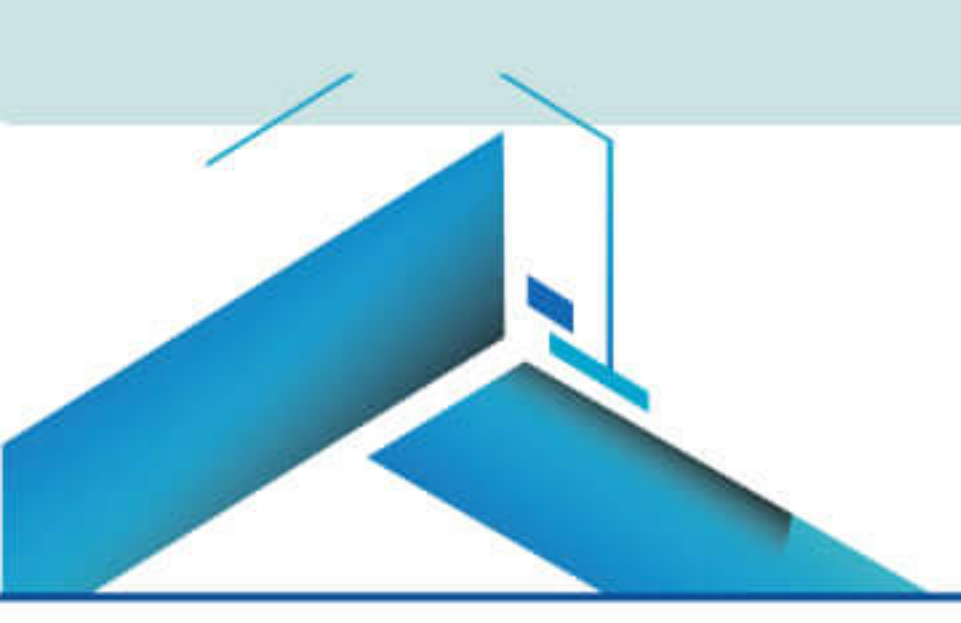


**3 set MTU 20V4000L 2145 ekW
gaz motoru, tek etkili chiller ısıtma ve soğutma
sistemi imalatını ve montajı.
Trijenerasyon santrali – ısı merkezleri arası
ısıtma ve soğutma hatlarının imalatı ve montajı.**



**Erection of 3 Sets of MTU 20V4000L 2145 ekW
gas engine, manufacturing and erection of
heat recovery system and
single chiller cooling system.
Erection of heating and cooling lines
between trigeneration plant and heat centers.**





TRİJENERASYON / TRIGENERATION



**Kayseri Şehir Hastanesi
Trijenerasyon Enerji Santrali /
Kayseri City Hospital
Trigeneration Power Plant**



**2 set MWM CG170-20
gaz motoru, atık ısı geri kazanım ısıtma
ve abs. chiller soğutma sisteminin
imalatı ve montajı.**



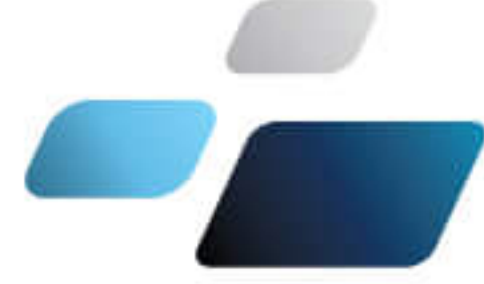
**Erection of 2 Sets of MWM CG170-20 natural
gas fired gas engine, manufacturing and
erection of heat recovery system and
absorption chiller cooling system**



SPUL İMALATI / SPOOL MANUFACTURING



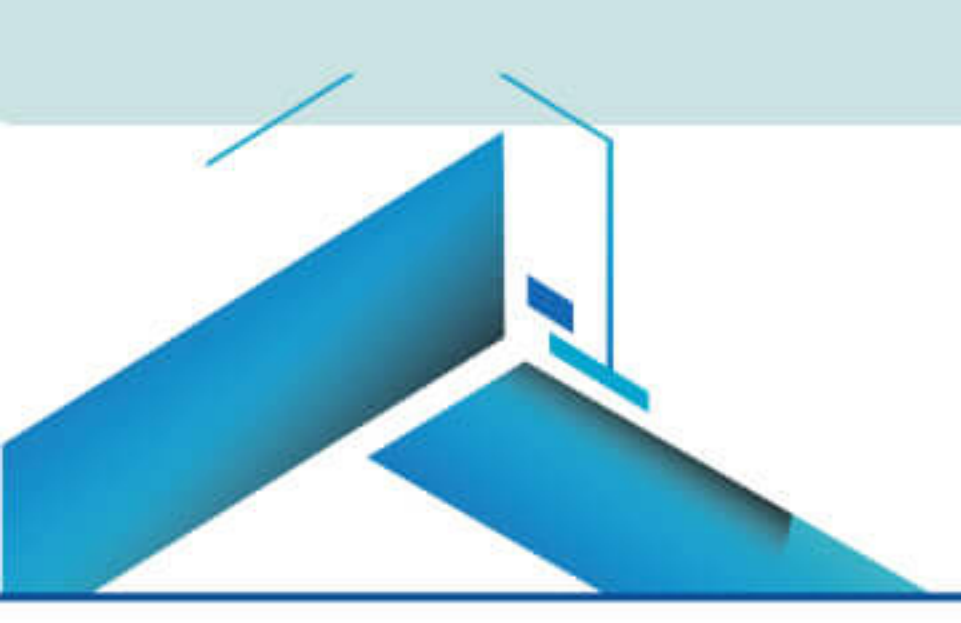
Pompa Skid Grubu ve Spul İmalatı / Pump Sked Groups and Spool Manufacturing



Pompa Skid Grubu / Pump Sked Groups



Atık ısı buhar kazanı besi suyu pompa skid grubu Waste heat recovery boiler feed booster pump

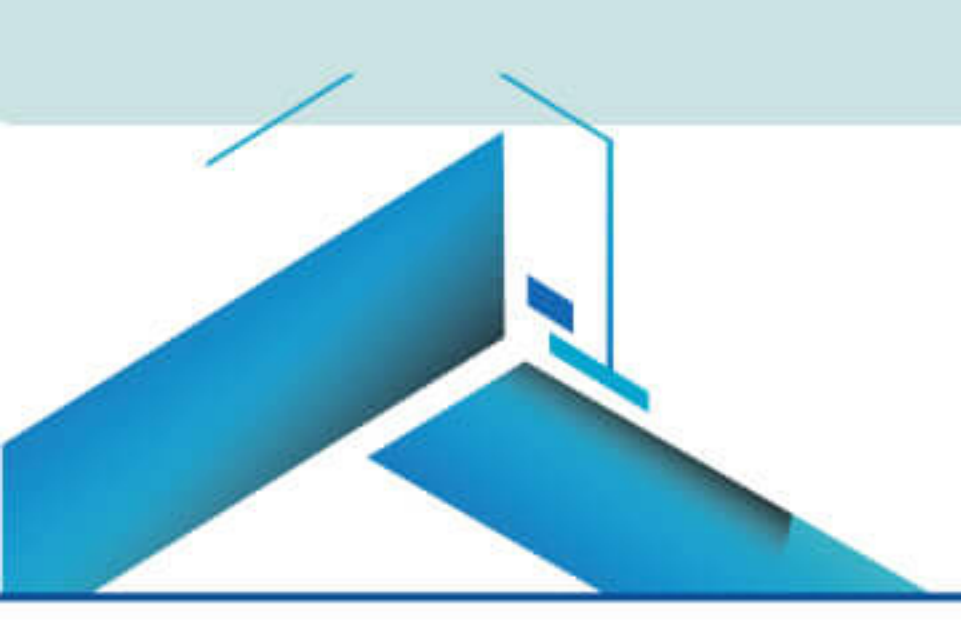


SPUL İMALATI / SPOOL MANUFACTURING



Gaz Motoru Konteyner İmalatı / Manufacturing of a Gas Engine Container





SPUL İMALATI / SPOOL MANUFACTURING



SERTİFİKALAR / CERTIFICATE



CERTIFICATE

The certification body of TÜV AUSTRIA SERVICES GMBH certifies that

HN MAKİNE SAN.VE TİC.LTD.ŞTİ.
Kemalpaşa OSB.İstiklal Mahallesi 9012 sk. No:6
Kemalpaşa / İZMİR / TÜRKİYE

has met all necessary quality requirements for welding according to

EN ISO 3834-2

Date of audit: 22.03.2019

This certificate is valid for the following products or service ranges:

Engineering, manufacturing, mechanical installation and service in steel construction subjects of EN ISO 3834-2

Date of expiry: 21.03.2020

Certificate No.: **HZ-02826-19-TR-OSY**

Failure to meet all these necessary requirements as defined in the annex to this certificate will spoil this document!
The certificate keeps valid, if the TÜV AUSTRIA SERVICES GMBH performs the annual surveillance.

Leonding
PLACE

27.03.2019
DATE

Mastnak Alexander DI
CERTIFICATION BODY

**TÜV AUSTRIA
SERVICES GMBH**
Deutschstraße 10
A-1230 Wien



047245-18-4

**Enclosure to Certificate no.
HZ-02826-19-TR-OSY**



TÜV AUSTRIA SERVICES GMBH
Systemzertifizierung WS

FM-TASE-Zert-MS-002

**Proof of compliance with the „Welding quality requirements“
according to ÖNORM EN ISO 3834-2**

Verification of the requirements and technical review

Procedure viewed: HN-QSP-015

Subcontracting:

Supplier evaluation Instruction (Annex 16)

Welding personnel:

Hamdi ERGİN Annex18

Personnel for monitoring and testing:

1 personnel QC staff (1 mechanical technician)

Equipment:

Please check Annex 23 for Equipment list

Welding and associated activities:

Please check Annex 26 for PQR list

Welding consumables:

According to EN ISO 14175/EN ISO 2560/ EN ISO 14351

Storage of raw materials:

Storage Instruction (KEK.EK.01)

Heat treatment:

N/A

Monitoring and testing related to welding:

If required NDT (outsourced Company-ERMA)

Non-compliance and corrective measures

Non compliance and corrective procedure (HN-QSP-002)

Calibration and validation of measuring, monitoring and testing equipment:

Please check Annex 32 for Calibration Instruction

Labelling and traceability:

Traceability Procedure (ref Quality manual)

Quality reports:

Quality Control Plan (Annex6)

For additional information see: Test record ÖNORM M 7812-1 no.

Certification body of
TÜV AUSTRIA SERVICES GMBH
Dipl.-Ing. Alexander Mastnak
Certification responsible

Leonding, 27.03.2019

TÜV AUSTRIA SERVICES GMBH

2019-IN-AT-MS-00E-EK-108_EN ISO
3834.doc
Seite 2/2

Deutschstraße 10
A-1230 Wien / Österreich
Ausschussweise Vervielfältigung nur mit Genehmigung der TÜV AUSTRIA SERVICES GMBH gestattet.

Tel: +43(0)1 514 07-0
E-Mail: office@tuv.at
www.tuv.at



SERTİFİKALAR / CERTIFICATE



WELDING CERTIFICATE

Certificate No.: 0408-CPR-TA02825

Manufacturer	HN MAKİNE SAN.VE TİC.LTD.ŞTİ. Sekiz Eylül Mah.113 Sk.No:22/A Kemalpaşa / İZMİR / TÜRKİYE
Factories	HN MAKİNE SAN.VE TİC.LTD.ŞTİ. Kemalpaşa OSB.İstiklal Mahallesi 9012 sk. No:6 Kemalpaşa / İZMİR / TÜRKİYE
Standard	EN 1090-1:2009+A1:2011 EN 1090-2:2018
Execution Classes	Up to EXC 2
Welding Processes (According to ISO 4063)	135 – Metal Active Gas Welding 111 – Manual metal-arc welding 141 – Tungsten inert gas welding
Parent Metals	S235, S275, S355 acc. to EN 10025-2
Responsible Welding Coordinator	Hamdi ERGİN Level (C) acc. To EN 1090-2, 7.4.3
Deputies	-
Confirmation	It is confirmed that all procedures for the execution and supervision of welding work are available.
Remarks	This welding certificate is only valid within the scope of and in connection with FPC Certificate No.: 0408- CPR-TA02825
Valid from	22.03.2019 (first day of issue)
Next Surveillance	21.03.2020

Leonding
PLACE27.03.2019
DATEMastnak Alexander DJ
CERTIFICATION BODYTÜV AUSTRIA
SERVICES GMBH
Deutschstraße 10
A-1230 Wien

047247-18-4



CERTIFICATE

of conformity
of the factory production control

No.: 0408-CPR-TA02825

In compliance with Regulation 305/2011/EU of the European Parliament and of the
Council of 9th March 2011 (the Construction Products Regulation or CPR), this certificate
applies to the construction product

Components for Steel structures

harmonised Standard	execution class	declaration method
EN 1090-1:2009+A1:2011	Load bearing steel components with corrosion protection up to EXC 2 acc. EN 1090-2	1 and 3a acc. Tab. A.1 of EN 1090-1

produced by or for

HN MAKİNE SAN.VE TİC.LTD.ŞTİ.
Sekiz Eylül Mah.113 Sk.No:22/A
Kemalpaşa / İZMİR / TÜRKİYE

and produced in the manufacturing plant (s) (additions on page 2)

HN MAKİNE SAN.VE TİC.LTD.ŞTİ.
Kemalpaşa OSB.İstiklal Mahallesi 9012 sk. No:6
Kemalpaşa / İZMİR / TÜRKİYEThis certificate attests that all provisions concerning the assessment and verification of
constancy of performance described in Annex ZA of the standard (s)

EN 1090-1:2009+A1:2011

under system 2+ are applied and that

the factory production control fulfills all the prescribed requirements
set out above.This certificate was first issued on 22.03.2019 and will remain valid as long as the test
methods and/or factory production control requirements included in the harmonized
standard, used to assess the performance of the declared characteristics, do not change,
and the product, and the manufacturing conditions in the plant are not modified
signification. The next surveillance is due on 21.03.2020.Leonding
PLACE27.03.2019
DATEMastnak Alexander DJ
CERTIFICATION BODYTÜV AUSTRIA
SERVICES GMBH
Deutschstraße 10
A-1230 Wien

047248-18-4

Veröffentlichung nur mit Erlaubnis des TÜV AUSTRIA. The reproduction of this document is subject to the approval by TÜV AUSTRIA.

SERTİFİKALAR / CERTIFICATE

ZERTIFIKAT • CERTIFICATE • CERTIFICADO • CERTIFICAT

UNICERT

UNIVERSAL QUALITY

KALİTE YÖNETİM SİSTEMİ SERTİFİKASI

Universal GmbH

Bu sertifika,

HN Makine San. ve Tic. Ltd. Şti.

Sekiz Eylül Mah. 113 Sk. No: 22/A Kemalpaşa/ İzmir/ Türkiye

kuruluşunun,

Yangın Tesisatları, Çelik Prefabrik Borulama, Çelik Konstrüksiyon
Mühendislik İmalat Montaj Hizmetleri, Başka Yerde Sınıflandırılmamış
Diğer Sanayi Makine Ve Kipmanlarının Kurulum Hizmetleri Mekanik Montaj
Ve Cimento İmalatında Kullanılan Makilerin Kurulumu Dahil

kapsamında, IA2.008441 sayılı rapordaki inceleme ile

DIN EN ISO 9001:2015

standartının şartlarına uyan bir yönetim sistemi
kurduğunu ve uyguladığını onaylamak üzere verilmiştir.

Sertifika No : QMS 0419 008441

İlk Yayın Tarihi : 2019 - 04 - 02

Yayın / Revizyon Tarihi : 2019 - 04 - 02

Geçerlilik Tarihi : 2020 - 04 - 01

Belge Periyodu : 3 Yıl (1.Yıl)

DAKKS
Deutsche
Akkreditierungsstelle
D-ZM-16058-01-00

Universal GmbH

The authenticity of this certificate can be confirmed online or by e-mail to the Head Office via:
UNIVERSAL GmbH • Wilfried-Diekmann-Str. 20b 44536 Lünen Germany • T: +49 (0) 231 9931 9980 • info@uni-cert.de • www.uni-cert.de

REFERANSLAR / REFERENCES

Project Name	Location	Year
Petro Peru Rafineria De Talara	Talara – Peru	2018
ARF Energy Biogas Power Plant	İzmir – Türkiye	2018
ESA Group Energy Biogas Power Plant	Ankara – Turkey	2018
AHI Energy Biogas Power Plant	Amasya – Turkey	2018
VE-GE Kagit Cogeneration Plant	Izmir – Turkey	2018
Maritas Textile Cogeneration Power Plant	Kahramanmaraş – Turkey	2018
Kayseri City Hospital Trigeneration Power Plant	Kayseri – Turkey	2018
Manisa Training and Research Hospital Trigeneration Power Plant	Manisa – Turkey	2018
Bilkent Integrated Healthcare Campus Trigeneration Power Plant	Ankara – Turkey	2016
Bursagaz Trigeneration Power Plant	Bursa – Turkey	2016
Ankamall AVM Trigeneration Power Plant	Ankara – Turkey	2015
Fatsa City Hospital Trigeneration Power Plant	Ordu – Turkey	2015
Timsah Arena Trigeneration Power Plant	Bursa – Turkey	2015
Matesa Textile Cogeneration Power Plant	Kahramanmaraş – Turkey	2015
Midas Textile Cogeneration Power Plant	Kahramanmaraş – Turkey	2015
TAI Cogeneration Power Plant	Ankara – Turkey	2014
Acibadem Hospital Cogeneration Power Plant	Eskişehir – Turkey	2012
Acibadem Hospital Cogeneration Power Plant	Kayseri – Turkey	2012
Acibadem Hospital Cogeneration Power Plant	Adana – Turkey	2012
Medicana Hospital Cogeneration Power Plant	Konya – Turkey	2012
Basyazıcıoğlu Textile Cogeneration Power Plant	Kayseri – Turkey	2011
Dr. Ahmet Hospital Cogeneration Power Plant	İstanbul – Turkey	2011
Konya Seker Cogeneration Power Plant	Konya – Turkey	2011
MMK Atakas Metalurji Power Plant	Kocaeli – Turkey	2011
Orkide Oil Factory Cogeneration Power Plant	Izmir – Turkey	2010
Durum Gıda Cogeneration Power Plant	Mersin – Turkey	2010
Hilton Hotel Cogeneration Power Plant	Bursa – Turkey	2010
Saray Hali Cogeneration Power Plant	Kayseri – Turkey	2010
Selva Makarna Cogeneration Unit	Konya – Turkey	2010
Gumustas Cogeneration Power Plant	Gumushane – Turkey	2010
Melike Textile Cogeneration Power Plant	Gaziantep – Turkey	2009
Naksan Textile Cogeneration Power Plant	Gaziantep – Turkey	2009
Tenghiz Chevron Oil Cogeneration Units	Kazakhstan	2003
Hurricane Cogeneration Units	Kazakhstan	2003
Tanriverdi Textile Cogeneration Power Plant	Tekirdag – Turkey	2003
Aktin Textile Cogeneration Power Plant	Tekirdag – Turkey	2003
Saray Örme Textile Cogeneration Power Plant	Bursa – Turkey	2003
Celik Halat Cogeneration Power Plant	Kocaeli – Turkey	2003
Baydemir Textile Cogeneration Power Plant	İstanbul – Turkey	2004
Mercedes Benz Cogeneration Power Plant	İstanbul – Turkey	2004
Kucukcalik Textile Cogeneration Power Plant	Bursa – Turkey	2005
Eroglu Textile Cogeneration Power Plant	Tekirdag – Turkey	2005

REFERANSLAR / REFERENCES

Project Name	Location	Year
Conrad Hotel Cogeneration Power Plant	Istanbul – Turkey	2005
Coca Cola Cogeneration Power Plant	Kazakhstan	2006
Four Seasons Hotel Cogeneration Power Plant	Istanbul – Turkey	2006
Kilsan Tugla Cogeneration Power Plant	Istanbul – Turkey	2006
Mardan Palace Cogeneration Units	Antalya – Turkey	2006
Kurtoglu Alüminyum Cogeneration Power Plant	Tekirdag – Turkey	2006
Ormed II Cogeneration Power Plant	Kazakhstan	2007
Pepsi Cola Cogeneration Units	Kazakhstan	2007
Mauri Maya Factory Cogeneration Units	Bursa – Turkey	2007
Polat Hotel Cogeneration Power Plant	Istanbul – Turkey	2007
Botas Cogeneration Power Plant	Tekirdag – Turkey	2007
Konya Seker Cogeneration Power Plant	Istanbul – Turkey	2007
Sabiha Gokcen Airport Trigeneration Power Plant	Istanbul – Turkey	2009
Delta Energy Waste Heat Recovery Boiler Erection	Luleburgaz – Turkey	2009
Soktas Textile	Aydin - Turkey	2009
TESCO Kipa Trigeneration Power Plant	Izmir – Turkey	2008
Kasar Dual Textile Power Plant	Tekirdag – Turkey	2008
Kasar Dual Textile Power Plant	Istanbul – Turkey	2008
Tarkim Kimya Proses Lines	Bursa - Turkey	2008
Eren Textile Power Plant	Tekirdag - Turkey	2007
EUAS Tuncbilek Power Plant	Kutahya - Turkey	2006
Kroman Celik A.S.	Kocaeli - Turkey	2006
Iskenderun Demir Celik	Iskenderun - Turkey	2006
Hayat Kağıt Power Plant	Corum – Turkey	2004
Can Textile Power Plant	Corum – Turkey	2004
Besler Gıda Waste Heat Recovery Boiler Erection	Istanbul – Turkey	2002



hnm Makine

- COGENERATION
- TRIGENERATION
- POWER PLANTS
- INDUSTRIAL ASSEMBLY

TÜV
AUSTRIA
DIN EN ISO 9001:2015
Certificate No:
QMS 0419 008441

TÜV
AUSTRIA
EN ISO 3834-2
Certificate No:
HZ-02826-19-TR-OSY

TÜV
AUSTRIA
EN 1090-1:2009+A1:2011
EN 1090-2:2018
Certificate No:
0408-CPR-TA02825